

Title (en)
MULTI-CHANNEL TRANSMITTER RADIO FREQUENCY FRONT-END STRUCTURE, TERMINAL, AND WIRELESS COMMUNICATION DEVICE

Title (de)
RADIOFREQUENZ-FRONTEND-STRUKTUR FÜR MEHRKANALSENDER, ENDGERÄT UND DRAHTLOSE KOMMUNIKATIONSVORRICHTUNG

Title (fr)
STRUCTURE FRONTALE RADIOFRÉQUENCE D'ÉMETTEUR À CANAUX MULTIPLES, TERMINAL ET DISPOSITIF DE COMMUNICATION SANS FIL

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Application
EP 19899772 A 20191218

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Abstract (en)
The present disclosure provides a multi-channel transmitter radio frequency front end structure, a terminal, and wireless communication equipment. The multi-channel transmitter radio frequency front end structure includes two power amplifiers, a radio frequency duplexer, a resonant network and an antenna terminal, the radio frequency duplexer is connected between the two power amplifiers and the antenna terminal, the resonant network is a series resonant network and is connected between the two power amplifiers and the antenna terminal, and the equivalent circuit of the series resonant network is that a grounding capacitor connected in series between two inductors. In the present disclosure, through passive resonance, equivalent low impedance is generated in the frequency bands of other channels, which can achieve the effect of eliminating leaked signals, thus improving the isolation. In addition, by setting the parameters of a passive resonant network, negative capacitance can be generated in a specific frequency band, so that parasitic capacitance can be eliminated, and matching inductance can be eliminated as a result.

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